

Title (en)

Ethylene homopolymer and its molded article

Title (de)

Ethylen-Homopolymer und daraus hergestellte Formteile

Title (fr)

Homopolymère d'éthylène et articles moulés préparés avec celui-ci

Publication

EP 0985687 A1 20000315 (EN)

Application

EP 99115932 A 19990813

Priority

JP 25342298 A 19980908

Abstract (en)

Provided are an ethylene homopolymer having well-balanced properties of good heat resistance, good heat-sealability and good moldability, and its molded articles. The ethylene homopolymer is characterized in that the number of butyl branches per 100 methyl branches therein falls between 1 and 20, as measured through ¹³C-NMR, that its density, d (kg/m³), falls between 880 and 980, and that the density, d, and its melting point, T_m (°C), satisfy the conditions defined by the following formulae (1) to (3):
$$\frac{d}{T_m} \geq 0.001$$
 The ethylene homopolymer is molded into moldings.

IPC 1-7

C08F 110/02

IPC 8 full level

C08F 4/70 (2006.01); **C08F 110/02** (2006.01)

CPC (source: EP US)

C08F 10/00 (2013.01 - EP US); **C08F 110/02** (2013.01 - EP US)

Citation (search report)

- [X] WO 9748735 A1 19971224 - EXXON CHEMICAL PATENTS INC [US]
- [X] WO 9623010 A2 19960801 - DU PONT [US], et al
- [A] EP 0446013 A2 19910911 - TOSOH CORP [JP]
- [A] WO 8401156 A1 19840329 - PHILLIPS PETROLEUM CO [US]
- [PX] WO 9856832 A1 19981217 - DU PONT [US], et al

Cited by

EP1518867A1; WO03040199A1; WO2005014672A3; WO0118097A1; US7632573B2; US7411026B2; US6620897B1; US6765075B2; US7005488B2

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0985687 A1 20000315; **EP 0985687 B1 20030521**; DE 69908049 D1 20030626; DE 69908049 T2 20031127; JP 2000080125 A 20000321; US 6310167 B1 20011030

DOCDB simple family (application)

EP 99115932 A 19990813; DE 69908049 T 19990813; JP 25342298 A 19980908; US 37319499 A 19990812